

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P183857

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34359)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-25-C-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2449.2 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.51 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

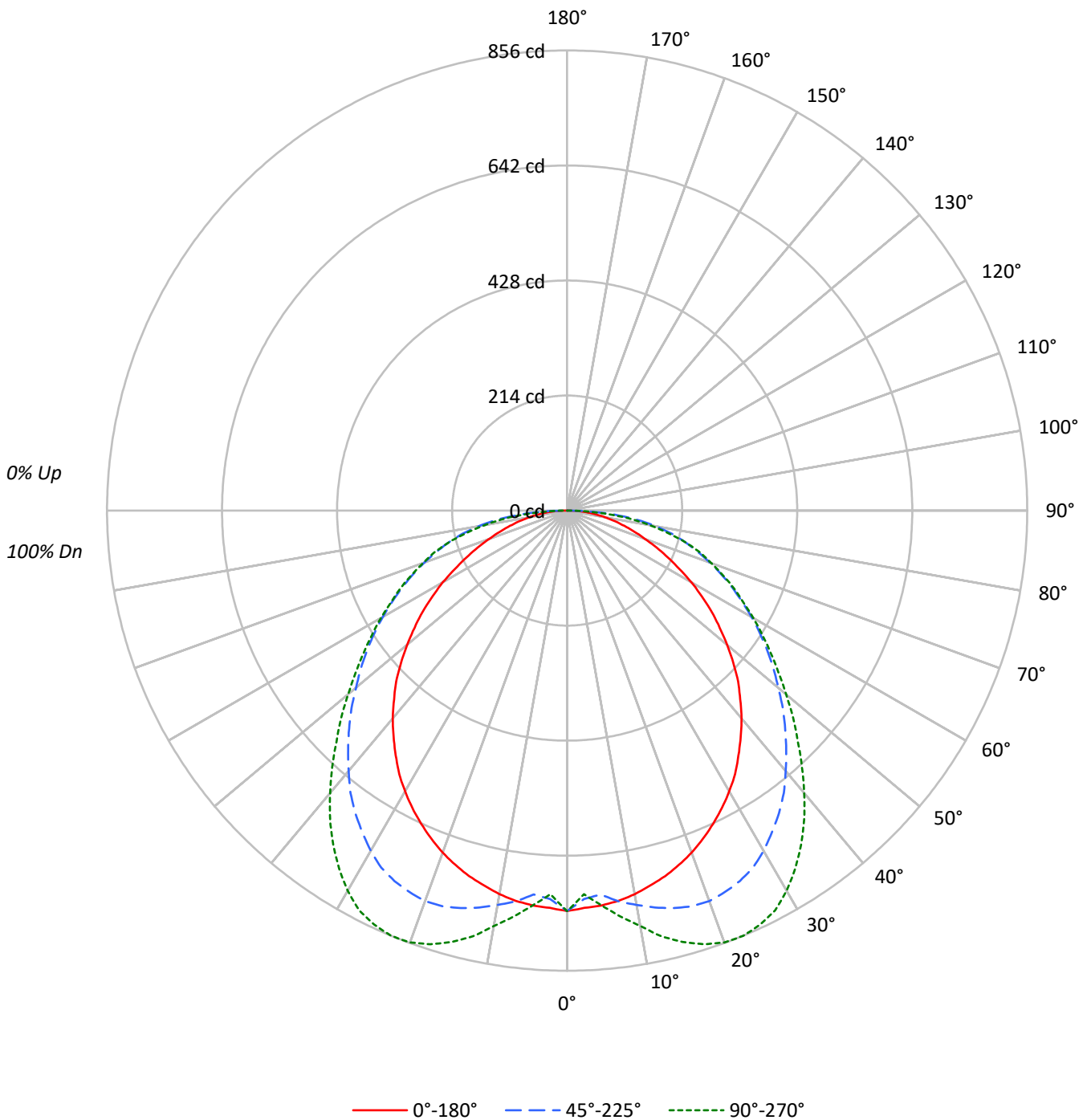
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2005	2005	2005
5°	1992	1936	1992
10°	1980	2035	2144
15°	1962	2132	2314
20°	1939	2214	2448
25°	1908	2257	2523
30°	1874	2271	2537
35°	1826	2258	2493
40°	1773	2222	2410
45°	1712	2183	2310
50°	1626	2145	2226
55°	1541	2134	2170
60°	1438	2132	2152
65°	1318	2156	2180
70°	1216	2222	2242
75°	1143	2364	2364
80°	1110	2594	2416
85°	1105	2760	2368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.0	2.9
10°-20°	215.0	8.8
20°-30°	343.6	14.0
30°-40°	415.5	17.0
40°-50°	421.5	17.2
50°-60°	379.6	15.5
60°-70°	307.4	12.5
70°-80°	214.5	8.8
80°-90°	82.0	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	628.7	25.7
0°-40°	1044.2	42.6
0°-60°	1845.4	75.3
0°-90°	2449.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2449.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	737	714	717	735	737	70
15°	704	703	765	815	831	198
25°	643	664	760	829	850	296
35°	556	584	687	745	759	348
45°	450	487	574	603	607	346
55°	328	387	455	463	463	293
65°	207	288	339	336	342	206
75°	110	192	227	225	227	117
85°	36	79	89	80	77	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9
2.5°	739.8	741.1	739.8	738.6	737.3	736.0	734.7	732.2	728.3	725.8	723.2
5°	737.3	737.3	732.2	724.5	718.1	714.3	710.4	707.9	709.2	713.0	716.8
7.5°	732.2	729.6	718.1	707.9	702.8	702.8	705.3	714.3	723.2	729.6	733.4
10°	724.5	719.4	702.8	695.1	701.5	706.6	713.0	721.9	727.1	734.7	744.9
12.5°	714.3	706.6	687.4	690.0	702.8	709.2	713.0	720.7	733.4	746.2	756.4
15°	704.1	691.3	674.7	686.2	698.9	702.8	707.9	723.2	737.3	750.1	765.4
17.5°	691.3	674.7	663.2	677.2	688.7	696.4	705.3	720.7	737.3	755.2	771.8
20°	677.2	658.1	651.7	667.0	681.1	690.0	697.7	716.8	736.0	753.9	773.1
22.5°	660.6	637.6	637.6	651.7	669.6	677.2	687.4	709.2	728.3	748.8	767.9
25°	642.7	618.4	621.0	636.3	654.2	664.4	674.7	696.4	719.4	738.6	760.3
27.5°	623.6	598.0	603.1	618.4	635.1	647.8	659.3	682.3	704.1	727.1	748.8
30°	603.1	577.6	581.4	596.7	615.9	628.7	640.2	663.2	686.2	710.4	730.9
32.5°	581.4	555.8	559.7	575.0	595.4	606.9	618.4	641.4	667.0	690.0	709.2
35°	555.8	532.8	536.7	552.0	572.4	583.9	595.4	621.0	644.0	665.7	687.4
37.5°	530.3	508.6	511.1	527.7	549.4	560.9	572.4	596.7	619.7	641.4	661.9
40°	504.7	484.3	488.1	503.4	525.2	535.4	546.9	572.4	595.4	615.9	632.5
42.5°	476.6	460.0	463.8	479.2	499.6	511.1	523.9	546.9	568.6	587.8	603.1
45°	449.8	435.7	438.3	453.6	474.1	486.8	498.3	522.6	543.1	558.4	573.7
47.5°	419.1	407.6	414.0	429.3	449.8	461.3	474.1	497.1	514.9	531.6	544.3
50°	388.4	379.5	387.2	403.8	424.2	438.3	449.8	470.2	488.1	503.4	512.4
52.5°	357.8	353.9	361.6	378.2	399.9	411.4	422.9	444.7	462.6	475.3	484.3
55°	328.4	325.8	336.1	353.9	376.9	387.2	398.7	419.1	435.7	447.2	454.9
57.5°	296.4	297.7	309.2	329.7	351.4	362.9	373.1	392.3	408.9	417.8	425.5
60°	267.1	268.3	283.7	304.1	327.1	338.6	348.8	366.7	380.8	389.7	396.1
62.5°	235.1	242.8	259.4	278.6	301.6	313.1	324.6	341.2	355.2	362.9	366.7
65°	207.0	215.9	235.1	255.6	278.6	287.5	299.0	315.6	327.1	334.8	338.6
67.5°	180.2	191.7	210.8	232.6	254.3	265.8	274.7	290.1	300.3	306.7	310.5
70°	154.6	168.7	189.1	209.6	230.0	240.2	249.2	264.5	273.4	279.8	282.4
72.5°	131.6	145.7	167.4	186.6	205.7	217.2	224.9	238.9	247.9	253.0	254.3
75°	109.9	125.2	144.4	163.6	182.7	191.7	200.6	212.1	221.1	226.2	227.4
77.5°	90.7	104.8	123.9	141.8	158.4	166.1	175.1	186.6	194.2	198.1	199.3
80°	71.6	85.6	102.2	118.8	134.2	139.3	146.9	157.2	166.1	167.4	167.4
82.5°	53.7	66.4	80.5	94.6	107.3	112.4	117.6	126.5	131.6	132.9	131.6
85°	35.8	44.7	54.9	65.2	75.4	79.2	84.3	90.7	90.7	93.3	89.4
87.5°	17.9	21.7	28.1	31.9	38.3	40.9	43.4	44.7	44.7	44.7	43.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9	744.9
2.5°	720.7	719.4	716.8	716.8	716.8	715.6	715.6	715.6	714.3	714.3
5°	721.9	725.8	730.9	734.7	734.7	734.7	736.0	736.0	737.3	737.3
7.5°	737.3	741.1	746.2	750.1	752.6	753.9	757.7	759.0	761.6	761.6
10°	755.2	761.6	767.9	771.8	775.6	778.2	779.4	784.6	784.6	784.6
12.5°	766.7	776.9	785.8	794.8	798.6	801.2	805.0	807.6	811.4	811.4
15°	779.4	790.9	801.2	811.4	815.2	819.1	824.2	828.0	829.3	830.6
17.5°	785.8	799.9	811.4	821.6	825.4	829.3	836.9	842.1	844.6	845.9
20°	788.4	803.7	817.8	829.3	834.4	838.2	845.9	851.0	854.8	854.8
22.5°	787.1	802.4	817.8	830.6	835.7	839.5	847.2	852.3	854.8	856.1
25°	780.7	796.1	811.4	824.2	829.3	833.1	840.8	845.9	849.7	849.7
27.5°	767.9	784.6	798.6	811.4	815.2	821.6	828.0	833.1	836.9	838.2
30°	750.1	766.7	782.0	792.2	797.3	801.2	807.6	813.9	815.2	816.5
32.5°	728.3	744.9	757.7	767.9	773.1	776.9	783.3	788.4	790.9	789.7
35°	704.1	718.1	730.9	741.1	744.9	747.5	753.9	756.4	759.0	759.0
37.5°	677.2	688.7	701.5	709.2	711.7	714.3	719.4	723.2	723.2	724.5
40°	645.3	658.1	667.0	674.7	677.2	678.5	683.6	684.9	686.2	686.2
42.5°	615.9	626.1	632.5	637.6	640.2	642.7	645.3	645.3	645.3	646.6
45°	583.9	591.6	598.0	601.8	603.1	604.4	605.7	606.9	606.9	606.9
47.5°	553.3	559.7	563.5	567.3	567.3	568.6	568.6	569.9	569.9	569.9
50°	520.1	525.2	527.7	530.3	530.3	530.3	531.6	531.6	531.6	531.6
52.5°	489.4	493.2	494.5	495.8	495.8	497.1	497.1	495.8	497.1	495.8
55°	458.7	461.3	462.6	461.3	462.6	462.6	462.6	461.3	462.6	462.6
57.5°	428.1	429.3	429.3	428.1	429.3	428.1	428.1	429.3	430.6	430.6
60°	397.4	397.4	396.1	396.1	396.1	396.1	396.1	398.7	398.7	399.9
62.5°	368.0	368.0	366.7	365.4	365.4	365.4	366.7	368.0	369.3	369.3
65°	338.6	338.6	337.3	336.1	336.1	336.1	337.3	338.6	339.9	342.4
67.5°	311.8	309.2	309.2	307.9	307.9	307.9	310.5	311.8	313.1	313.1
70°	281.1	281.1	278.6	279.8	279.8	279.8	281.1	282.4	283.7	284.9
72.5°	254.3	253.0	251.7	253.0	253.0	253.0	254.3	256.8	258.1	259.4
75°	227.4	226.2	226.2	224.9	224.9	226.2	226.2	227.4	227.4	227.4
77.5°	199.3	195.5	194.2	191.7	191.7	191.7	191.7	191.7	191.7	191.7
80°	166.1	161.0	157.2	157.2	155.9	155.9	155.9	155.9	154.6	155.9
82.5°	127.8	125.2	121.4	120.1	120.1	120.1	117.6	117.6	117.6	120.1
85°	86.9	85.6	81.8	80.5	80.5	79.2	77.9	77.9	79.2	76.7
87.5°	42.2	40.9	38.3	38.3	38.3	37.1	37.1	35.8	37.1	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)